Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs)

Mental Health: Consult for Depression Clinical Content White Paper

Department of Veterans Affairs (VA)



Knowledge Based Systems (KBS)
Office of Informatics and Information Governance (OIIG)
Clinical Decision Support (CDS)

Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs): Mental Health: Consult for Depression Clinical Content White Paper

by Department of Veterans Affairs (VA), , , , and

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Table 1. Relevant KNART Information: Mental Health: Consult for Depression

Mental Health	Associated CLIN
Consult for Depression - Order Set	CLIN0004AB
Consult for Depression - Documentation Template/ Consult Request	CLIN0005AB
Consult for Depression - Composite/Consult Request	N/A

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1.1. Clinical Context Domains	1

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Introduction

The VA is committed to improving the ability of clinicians to provide care for patients while increasing quality, safety, and efficiency. Recognizing the importance of standardizing clinical knowledge in support of this goal, VA is implementing the Health Level 7 (*HL7*) Knowledge Artifact Specification for a wide range of VA clinical use cases. Knowledge Artifacts, referred to as (*KNARTs*), enable the structuring and encoding of clinical knowledge so the knowledge can be integrated with electronic health records to enable clinical decision support.

The purpose of this Clinical Content White Paper (*CCWP*) is to capture the clinical context and intent of *KNART* use cases in sufficient detail to provide the *KNART* authoring team with the clinical source material to construct the corresponding knowledge artifacts using the HL7 Knowledge Artifact Specification. This paper has been developed using material from a variety of sources: VA artifacts, clinical practice guidelines, evidence in the body of medical literature, and clinical expertise. After reviewing these sources, the material has been synthesized and harmonized under the guidance of VA subject matter experts to reflect clinical intent for this use case.

Unless otherwise noted, items within this white paper (e.g., documentation template fields, orderable items, etc.) are chosen to reflect the clinical intent at the time of creation. To provide an exhaustive list of all possible items and their variations is beyond the scope of this work.

Conventions Used

Conventions used within the knowledge artifact descriptions include:

<observed states a prompt to obtain the information listed

- If possible, the requested information should be obtained from the underlying system(s). Otherwise, prompting the user for information may be required
- Default Values: Unless otherwise noted, <obtain> indicates to obtain the most recent observation. It is recognized that this default time-frame value may be altered by future implementations
- [...]: Square brackets enclose explanatory text that indicates some action on the part of the clinical user, or general guidance to the clinical or technical teams. Examples include, but are not limited to:

[Begin ...], [End ...]: Indicates the start and end of specific areas to clearly delineate them for technical purposes.

[Activate ...]: Initiates another knowledge artifact or knowledge artifact section.

[Section Prompt: ...]: If this section is applicable, then the following prompt should be displayed to the user.

[Section Selection Behavior: ...]: Indicates technical constraints or considerations for the selection of items outlined in the section prompt.

[Attach: ...]: ndicates that the specified item (e.g. procedure or result interpretation) should be attached to the documentation template if available.

[Link: ...]: Indicates that rather than attaching an item (e.g. image), a link should be included in the documentation template.

[Clinical Comment: ...]: Indicates technical considerations or notes to be utilized for KNART authoring and at time of implementation planning.

[Technical Note: ...]: Indicates technical considerations or notes to be utilized for KNART authoring and at time of implementation planning.

[If ...]: Indicates the beginning of a conditional section.

[Else, ...]: Indicates the beginning of the alternative branch of a conditional section.

[End if ...]: Indicates the end of a conditional section.

☐ [Check box]: Indicates items that should be selected based upon the section selection behavior.

Chapter 1. Mental Health: Consult for Depression

Clinical Context

[Begin Clinical Context.]

This set of KNARTs is intended to support initiation of appropriate clinical orders and provision of required documentation to place a consult request.

Depression is a highly prevalent condition that is among the most common causes of morbidity, mortality (i.e., suicide, homicide), and disability. In view of this, the VA has established structured protocols for collaborative care management that are generally implemented by behavioral health nurses or clinical social workers, with provision for referral to specialty mental health care programs when needed.

Table 1.1. Clinical Context Domains

Target User	Primary Care Providers (PCPs) and Mental Health Providers embedded in primary care practice settings
Patient	Adults Outpatients identified as requiring evaluation or treatment for depression
Priority	Routine
Specialty	Primary Care
Location	Outpatient

[End Clinical Context.]

Knowledge Artifacts

[Begin Knowledge Artifacts.]

This section describes the CDS knowledge artifacts that are part of the Mental Health group, and include:

- A Compisite/Consult Request: Mental Health: Consult for Depression KNART
 - · High-level, encompassing artifact
 - Relies upon the documentation template and order set artifacts
- A Documentation Template: Mental Health: Consult for Depression KNART
 - · Documents the information provided by the referring provider
 - Includes logic for appropriate display of documentation sections
- An Order Set: Mental Health: Consult for Depression KNART
 - · Orderable items associated with the consult request
 - Includes logic for appropriate display of the order set

[End Knowledge Artifacts.]

Chapter 2. Composite/Consult Request: Consult for Depression

[Begin Composite/Consult Request: Consult for Depression.]

Knowledge Narrative

[Begin Knowledge Narrative.] [See Clinical Context in Chapter 1.] [End Knowledge Narrative]

[Elia Kilowicage Ivaliative.]
Consult and Referral Request
[Begin Consult and Referral Request.]
[Technical Note: The following list provides the basic components of the consult request. This is the high-level encompassing artifact, and must be combined with the documentation template and order set to form a full functional knowledge artifact.]
[Technical Note: Consult specialty of mental health should be selected automatically]
[Section Prompt: Consult Specialty: Mental Health]
<pre><obtain> Reason for consult</obtain></pre>
[Section Prompt: Goal of Consult.]
[Section Selection Behavior: Required. Select One.]
☐ Provide consultation to PCP
☐ Start treatment and return to PCP for follow up and maintenance
\Box Start treatment, monitor for effect and when on stable therapy return to PCP
☐ Treat as long as necessary (or indefinitely)
[Section Prompt: Priority.]
□ Routine (within 30 days)
□ Routine with Scheduling Instructions
[Technical Note: Obtain from Documentation Template.]
• <obtain> Current psychiatric medications</obtain>
[Section Prompt: Patient Treatment Preference.]
[Section Selection Behavior: Select one or more. Required.]
□ Psychotherapy
□ Medication
☐ Medication and psychotherapy

Composite/Consult Request: Consult for Depression

□ No preference

<obtain> Additional information

[Technical Note: Obtain from Documentation Template or input by ordering provider.]

<obtain> Referring Physician

<obtain> Referring Physician Contact Information

[Technical Note: Referring Physician and Referring Physician Contact Information to be filled in automatically.]

[End Consult and Referral Request.]

[End Composite/Consult Request: Consult for Depression.]

Chapter 3. Documentation Template: Consult for Depression

[Begin Documenation Template: Consult for Depression.]

[Technical Note: This documentation template—consult request should be available to PCPs and mental health providers embedded in primary care practice settings caring for outpatients identified as requiring evaluation or treatment for depression.]

Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[End Knowledge Narrative.]

Screening Mental Health Evaluation

[Begin Screening Mental Health Evaluation.]

[Section Prompt: Patient Health Questionnaire-9 (*PHQ-9*). (A score of 10 is considered the threshold for mild symptoms of depression.)]

[Technical Note: Both the most recent *PHQ-9* score from any timeframe and all *PHQ-9* scores from the past 1 year should be presented to the user, with the dates of those scores, from available data.]

[Technical Note: *PHQ-9* must be calculated by totaling the form label values (displayed below following each user selection option) for the form labels selected by the user. Note that the following form components are adapted from Kroenke 2001. A score of 10 is considered the threshold for mild symptoms of depression.]

[Section Selection Behavior: Select one for each question asked. Optional.]

[Technical Note: *PHQ-9* score calculated using numbers following the response options below. Use the following reference link for scoring: https://www.integration.samhsa.gov/images/res/PHQ%20-%20Questions.pdf.]

[Section Prompt: Patient response to "over the past two weeks, how often have you been bothered by any of the following problems?"]

[Section Prompt: "Little interest or pleasure in doing things."]
□ Not at all 0
□ Several days 1
\square More than half the days 2
□ Nearly every day 3
[Section Prompt: "Feeling down, depressed, or hopeless."]
□ Not at all 0
□ Several days 1
☐ More than half the days 2

Documentation Template: Consult for Depression

□ Nearly every day 3
[Section Prompt: "Trouble falling or staying asleep, or sleeping too much."]
□ Not at all 0
□ Several days 1
☐ More than half the days 2
□ Nearly every day 3
[Section Prompt: "Feeling tired or having little energy."]
□ Not at all 0
□ Several days 1
☐ More than half the days 2
□ Nearly every day 3
[Section Prompt: "Poor appetite or overeating."]
□ Not at all 0
□ Several days 1
☐ More than half the days 2
□ Nearly every day 3
[Section Prompt: "Feeling bad about yourself-or that you are a failure or have let yourself or your family down."]
□ Not at all 0
□ Several days 1
☐ More than half the days 2
□ Nearly every day 3
[Section Prompt: "Trouble concentrating on things, such as reading the newspaper or watching television."]
□ Not at all 0
□ Several days 1
☐ More than half the days 2
□ Nearly every day 3
[Section Prompt: "Moving or speaking so slowly that other people could have noticed. Or the opposite-being so fidgety or restless that you have been moving around a lot more than usual."]
□ Not at all 0
□ Several days 1
\square More than half the days 2
□ Nearly every day 3

Documentation Template: Consult for Depression

[Section Prompt: "Thoughts that you would be better off dead or of hurting yourself."]
□ Not at all 0
□ Several days 1
\square More than half the days 2
□ Nearly every day 3
[Technical Note: The following question should be presented if PHQ-9 score \geq 1. Note that this is an unscored question in the PHQ-9 and has no form label value.]
Patient response to "If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?"
□ Not difficult at all
□ Somewhat difficult
□ Very difficult
□ Extremely difficult
[Section Prompt: For positive responses to the suicidal ideation question consider the following.]
[Technical Note: Upon completion of the PHQ-9, if there was any positive response to the question about suicidal ideation, the user should be presented with links to the following:
Documentation Template: Mental Health Suicide Risk Assessment KNART
Order Set: Mental Health Positive Suicide Risk Screening KNART.]
[Section Prompt: Prompt user to follow VA protocol for emergency situations. Information about the Veterans Crisis Line should be provided as appropriate, including the telephone number (800.273.8255), text message support (838255), and the website (https://www.veteranscrisisline.net/).]
<pre><obtain> Additional information</obtain></pre>
[End Screening Mental Health Evaluation.]
Medical History
[Begin Medical History.]
[Technical Note: Thyroid study results from the past 1 year should be autopopulated, with the dates of those results.]
<obtain> Thyroid-stimulating hormone (TSH), free T4 results and dates</obtain>
<obtain> Additional Information</obtain>
[End Medical History.]
Treatment History
[Begin Treatment History.]
<obtain> Interventions tried prior to consult request (timeframes, intensities, and providers for psychotherapy and any other interventions)</obtain>
[End Treatment History.]

Documentation Template: Consult for Depression

[End Documenation Template: Consult for Depression.]

Chapter 4. Order Set: Consult for Depression

[Begin Order Set: Consult for Depression.]

Knowledge Narrative

[Begin Knowledge Narrative.]
[See Clinical Context in Chapter 1.]
[End Knowledge Narrative.]

Consults and Referrals

[Begin Consults and Referrals.]

[Section Prompt: Follow VA protocol for emergency situations. Information about the Veterans Crisis Line should be provided to the patient as appropriate, including the telephone number (800.273.8255), text message support (838255), and the website (https://www.veteranscrisisline.net/).]

[Technical Note: This section should be provided to PCPs and mental health providers embedded in primary care practice settings who are caring for outpatients identified as requiring evaluation or treatment for depression.]

[Section Prompt: Inform patient that referral order was placed, including location of consult and emergency contact details for informed consent and contingency planning.]

□ Referral to mental health to evaluate and treat for depression (routine-within 30 c

[End Consults and Referrals.]

Patient and Caregiver Education

[Begin Patient and Caregiver Education.]

providers embedded tion or treatment for

Technical Note: This section should be provided to primary care providers and mental health n primary care practice settings who are caring for outpatients identified as requiring evaluate depression.]
☐ Depression education now
End Patient and Caregiver Education.]
End Order Set: Consult for Depression.]

Bibliography/Evidence

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- [Siu, 2016] AL Siu, K Bibbins-Domingo, DC Grossman, and et al. "US Preventive Services Task Force (USPSTF). Screening for Depression in Adults: US Preventive Services Task Force Recommendation Statement". JAMA. 2016. 315. 4. 380-387.
- [Thibault, 2004] JM Thibalut and RW Steiner. "Efficient identification of adults with depression and dementia". *Ann Fam Physician*. 2004. 70. 6. 1101-1110.

Appendix A. Existing Sample VA Artifacts

Figures A.1-A.7: Portland Oregon VA Medical Center (VAMC) Screenshots: Mental Health Consult for Depression - Order Set

Figure A.1. Mental Health Depression (MHD) Consult (image 1 of 3)

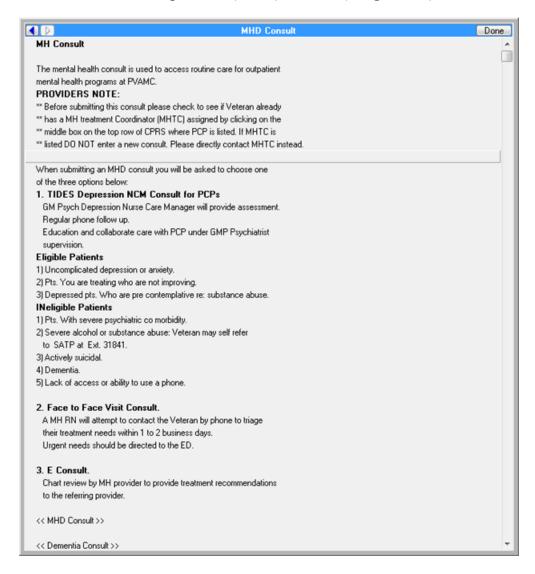


Figure A.2. Mental Health Depression (MHD) Consult (image 2 of 3)

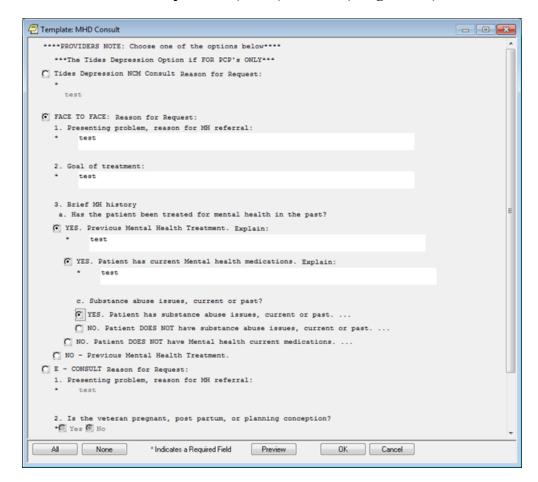


Figure A.3. Mental Health Depression (MHD) Consult (image 3 of 3)

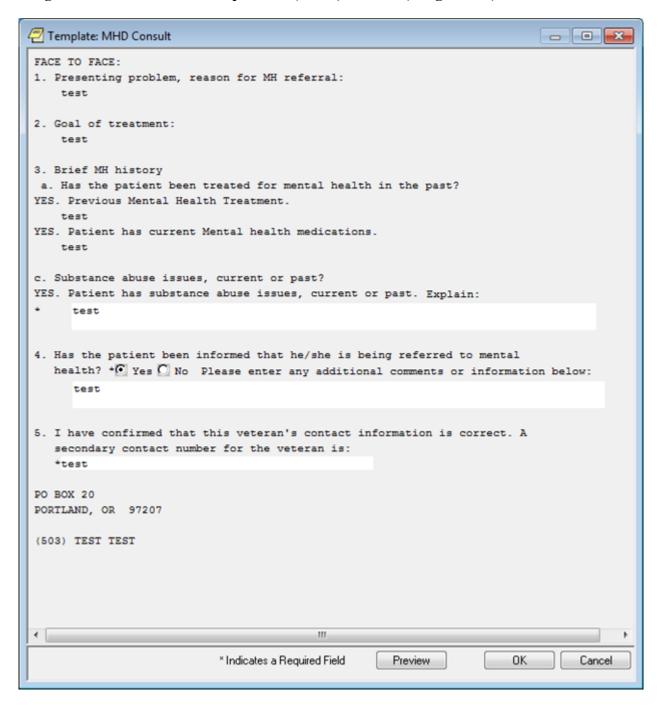


Figure A.4. Order a Mental Health Depression (MHD) Outpatient Consult

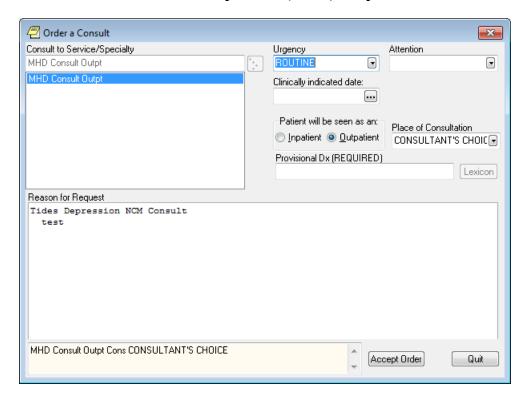


Figure A.5. Template Mental Health Depression (MHD) Consult – E-Consult (image 1 of 2)

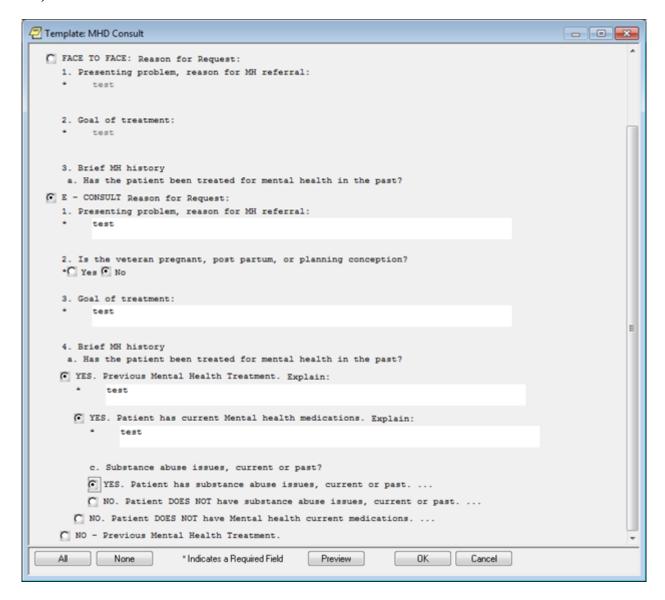


Figure A.6. Template Mental Health Depression (MHD) Consult – E-Consult (image 2 of 2)

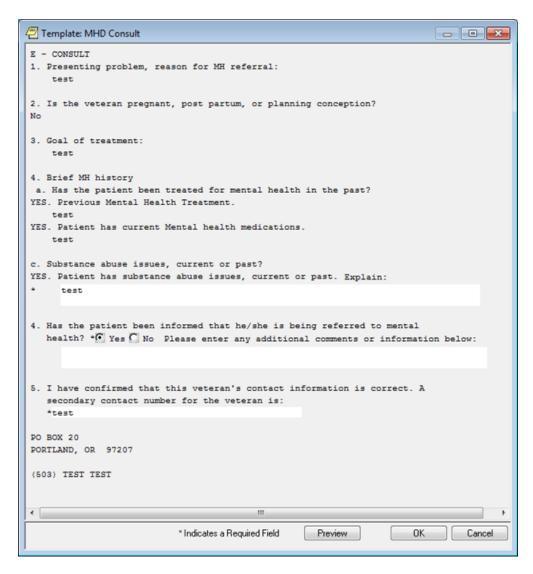
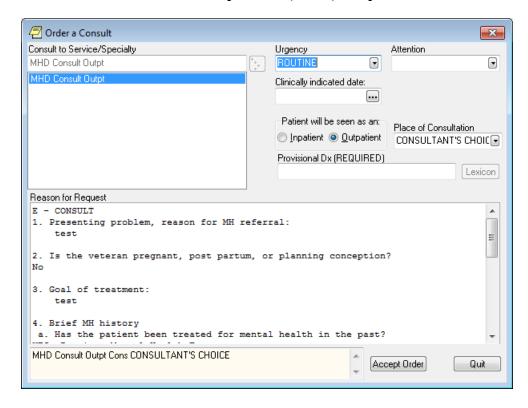


Figure A.7. Order a Mental Health Depression (MHD) Outpatient E-Consult



Figures A.8-A.21: Greater Los Angeles, CA VAMC Screenshots Mental Health Depression - Order Set

Figure A.8. I am NOT a Mental Health Provider

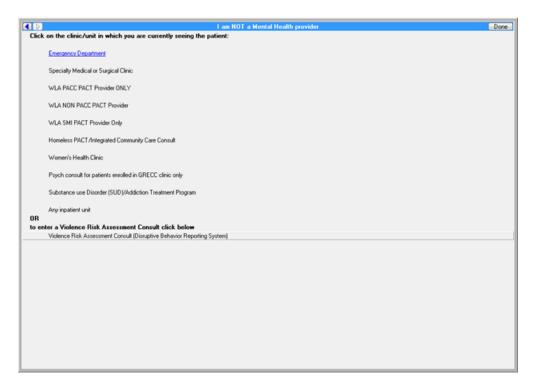


Figure A.9. Emergency to be Seen by Emergency Department Psychiatrist

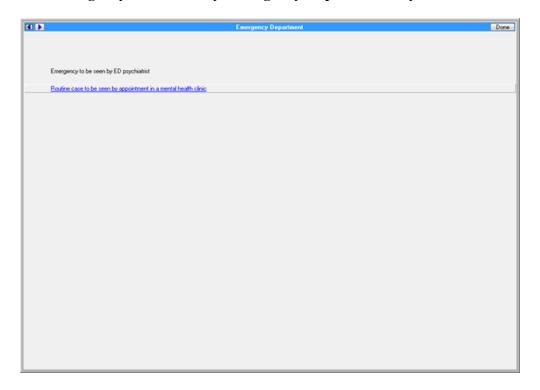


Figure A.10. Reason for Request - Mental Health Psychiatry Emergency Outpatient

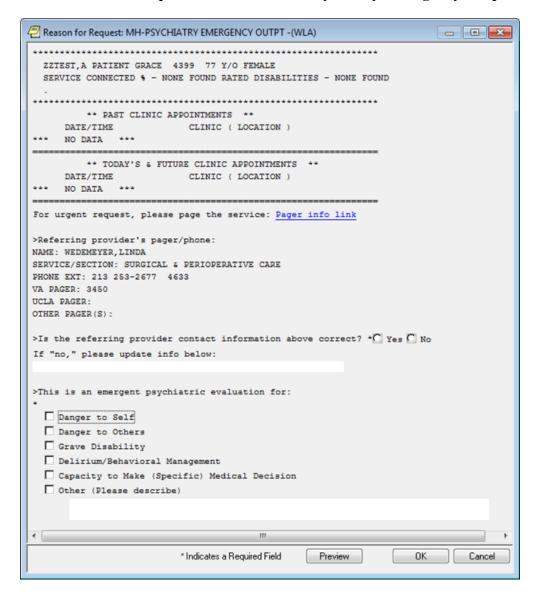


Figure A.11. Reason for Request - Mental Health Clinic Outpatient (image 1 of 4)

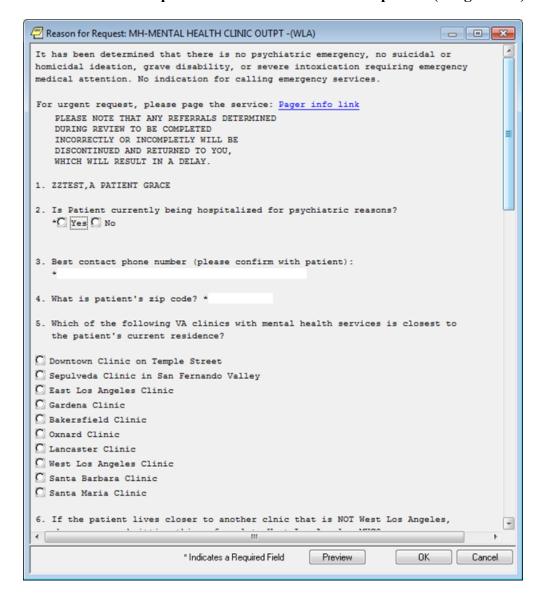


Figure A.12. Reason for Request - Mental Health Clinic Outpatient (image 2 of 4)

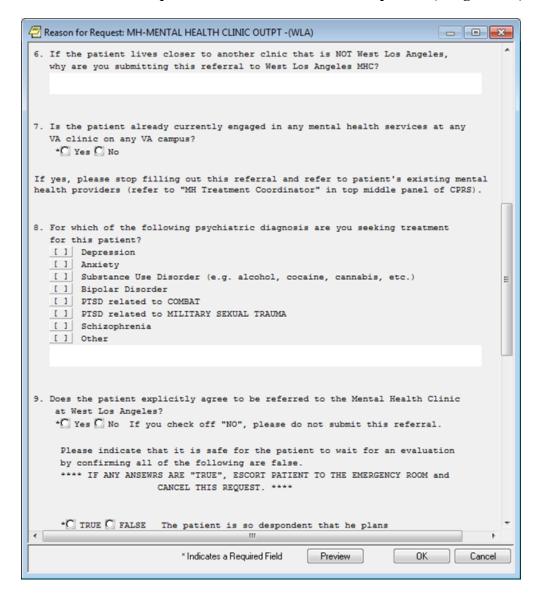


Figure A.13. Reason for Request - Mental Health Clinic Outpatient (image 3 of 4)

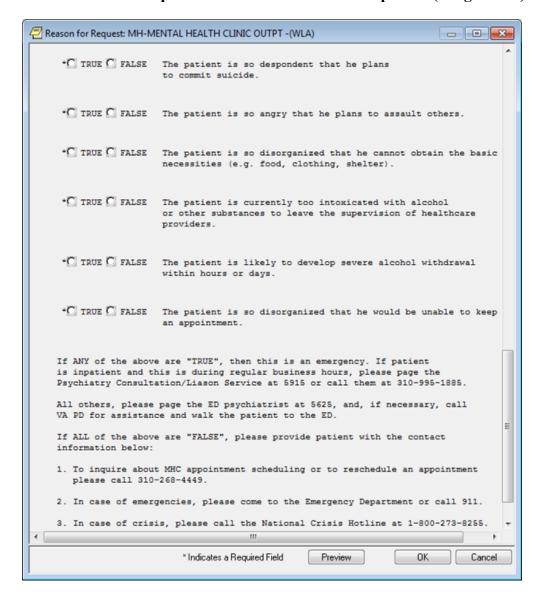


Figure A.14. Reason for Request - Mental Health Clinic Outpatient (image 4 of 4)

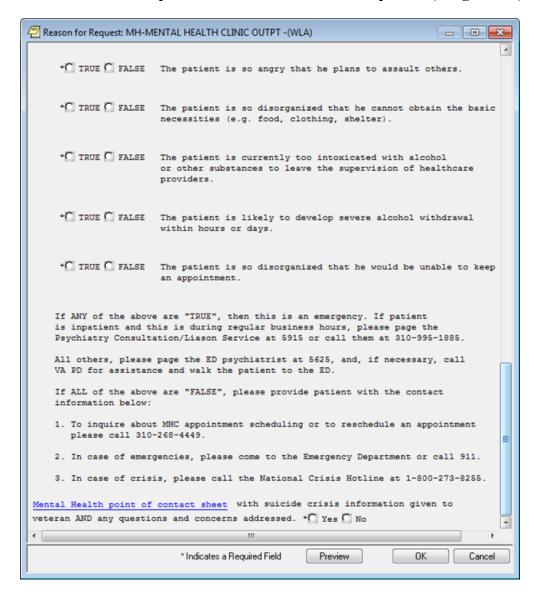


Figure A.15. Mental Health Consult from Specialty Clinics, for Patients Older Than 65 with Multiple Medical Problems (image 1 of 2)

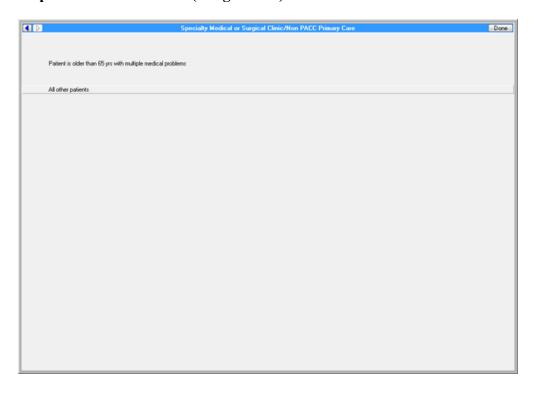


Figure A.16. Mental Health Consult from Specialty Clinics, for Patients Older Than 65 with Multiple Medical Problems (image 2 of 2)

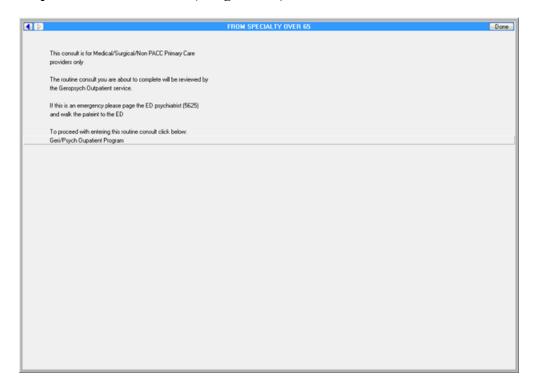


Figure A.17. Reason for Request - Geropsychiatry Clinic Outpatient (image 1 of 3)

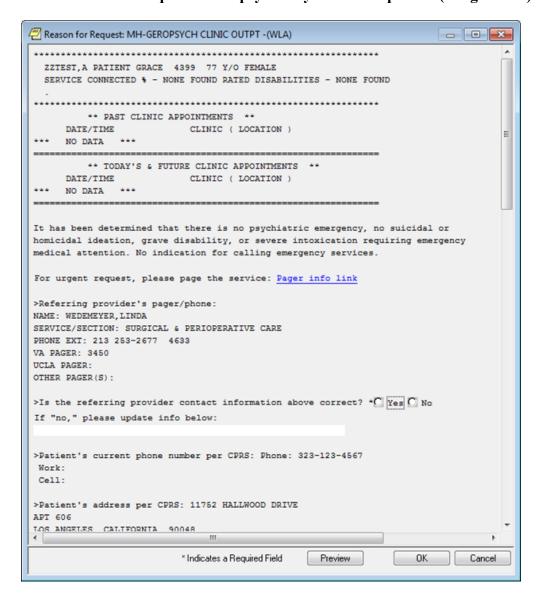


Figure A.18. Reason for Request - Geropsychiatry Clinic Outpatient (image 2 of 3)

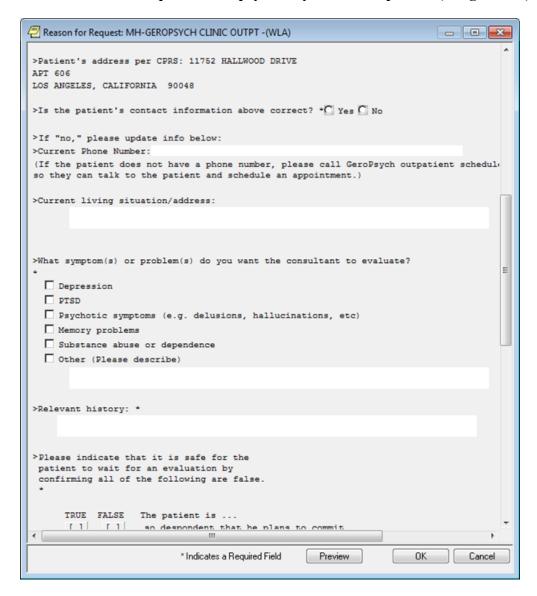


Figure A.19. Reason for Request - Geropsychiatry Clinic Outpatient (image 3 of 3)

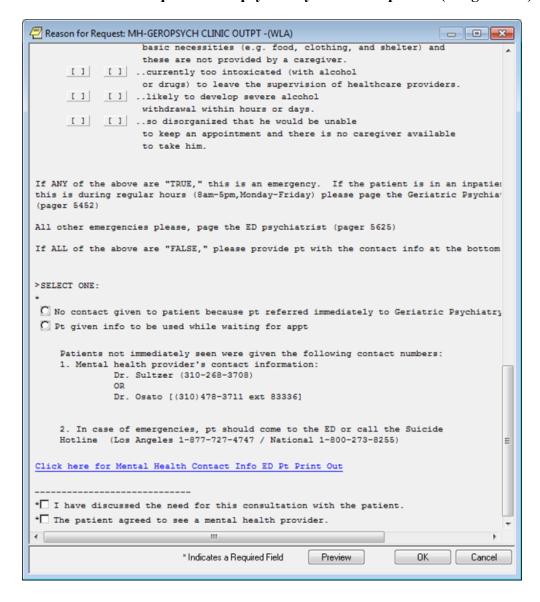


Figure A.20. Mental Health Consult from Specialty Clinics

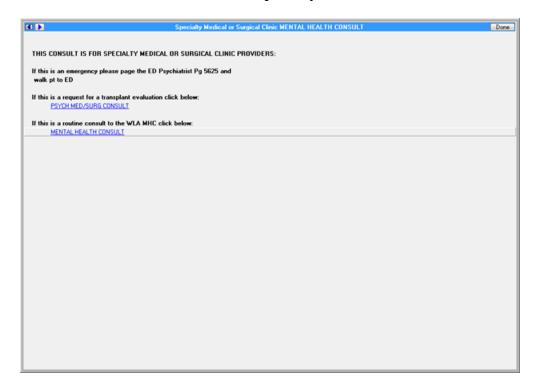
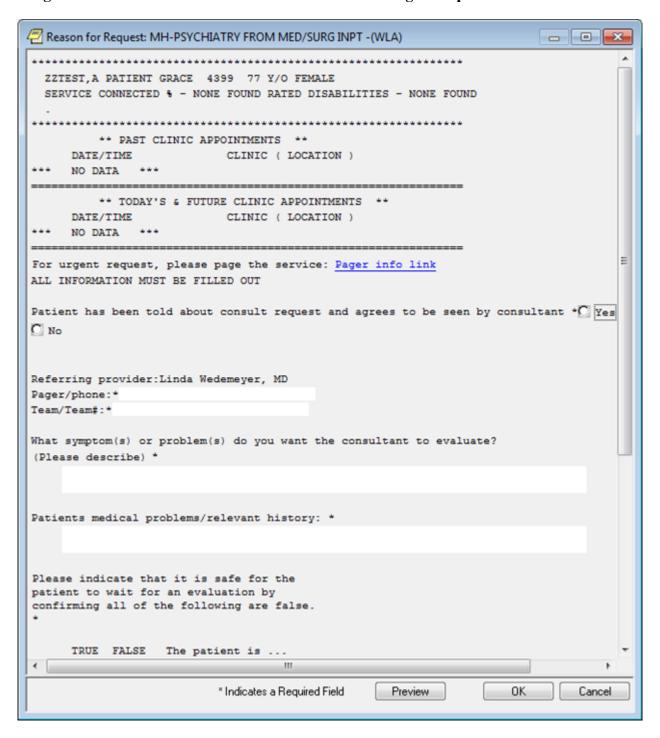


Figure A.21. Mental Health Consult for Medical or Surgical Inpatient



Figures A.22-A.32: Greater Los Angeles, CA VAMC Mental Health Consult for Depression - Documentation Template

Figure A.22. Template: Depression Assessment Consult Note (image 1 of 5)

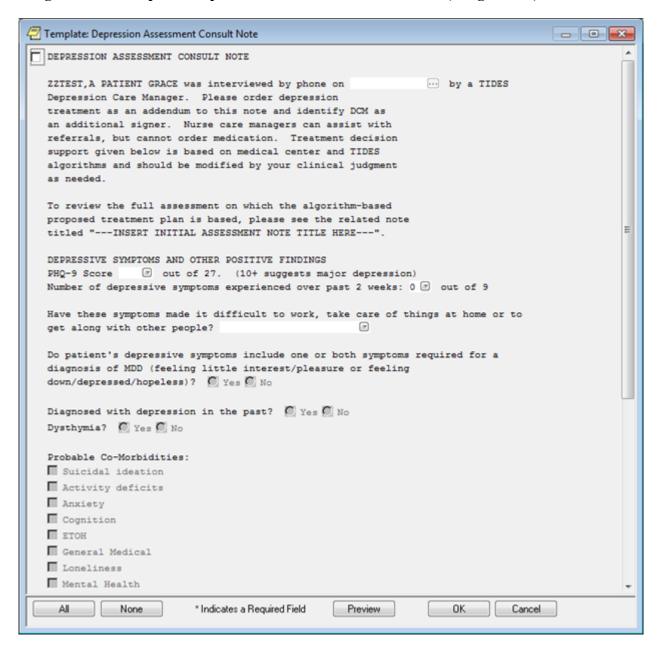


Figure A.23. Template: Depression Assessment Consult Note (image 2 of 5)

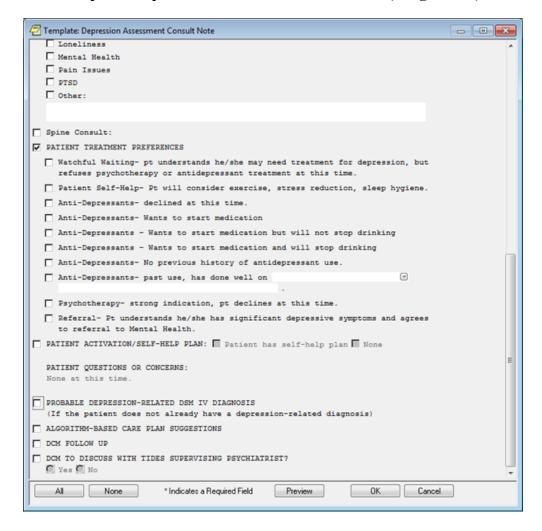


Figure A.24. Template: Depression Assessment Consult Note (image 3 of 5)

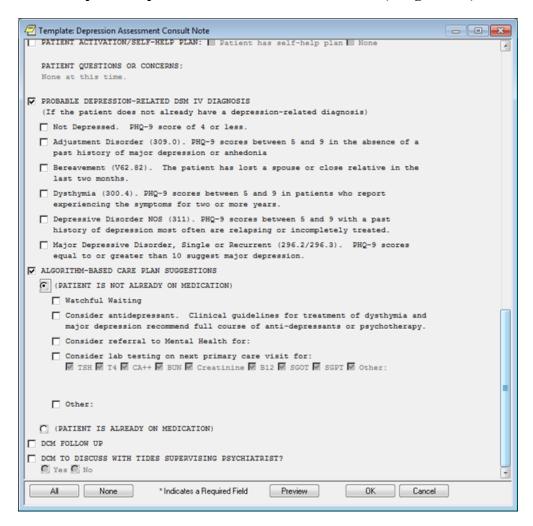


Figure A.25. Template: Depression Assessment Consult Note (image 4 of 5)

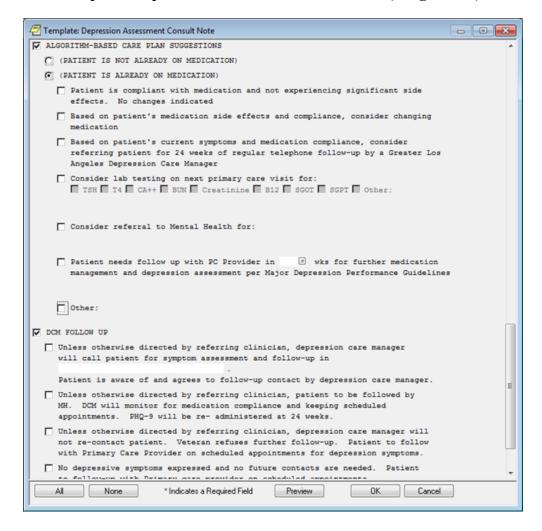


Figure A.26. Template: Depression Assessment Consult Note (image 5 of 5)

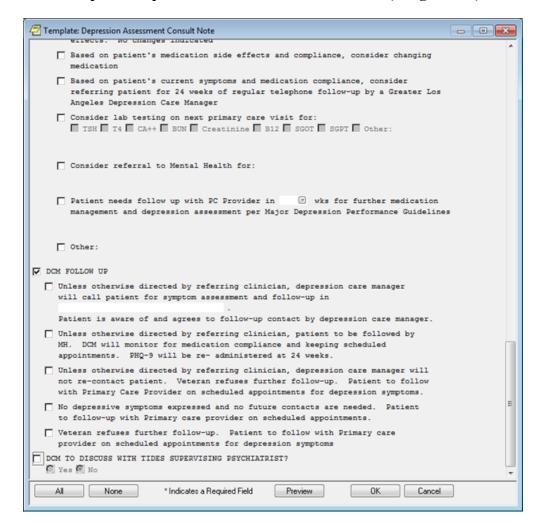


Figure A.27. Reminder Dialog Template: Geriatric Research Education and Clinical Center (GRECC) Exam Tools (image 1 of 2)

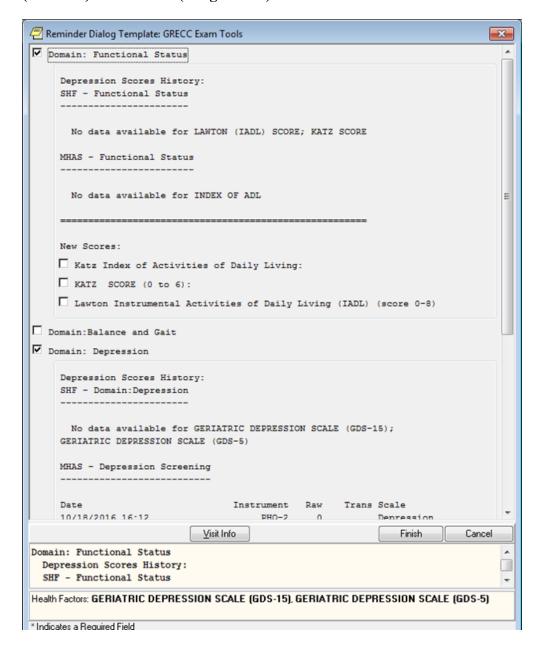


Figure A.28. Reminder Dialog Template: Geriatric Research Education and Clinical Center (GRECC) Exam Tools (image 2 of 2)

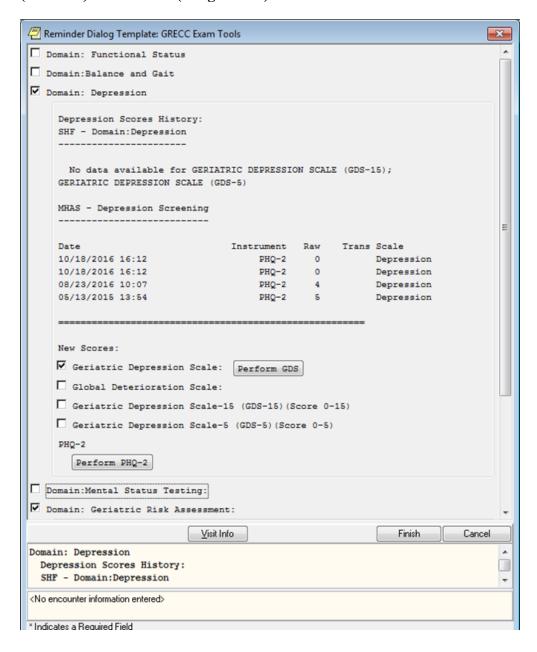


Figure A.29. Geriatric Depression Scale (GDS) Test (image 1 of 2)

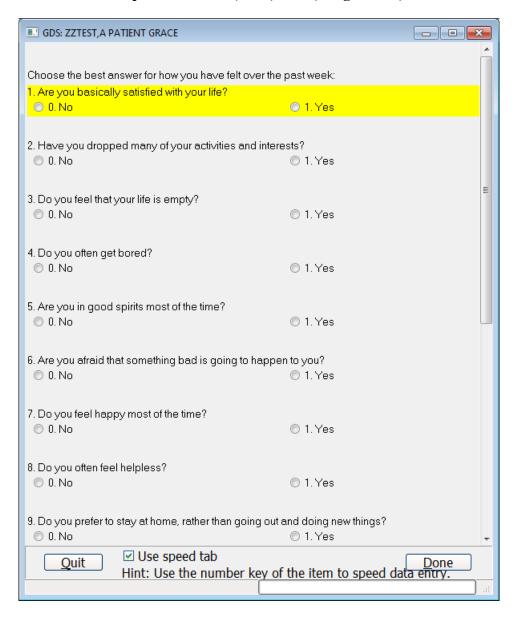


Figure A.30. Geriatric Depression Scale (GDS) Test (image 2 of 2)

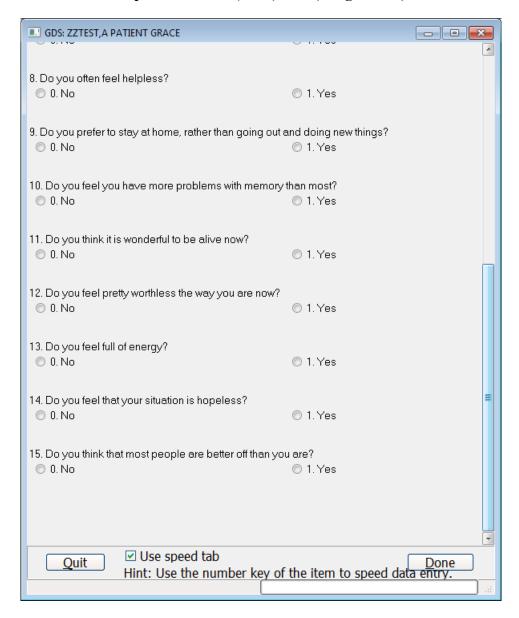


Figure A.31. Reminder Dialog Template: Geriatric Research Education and Clinical Center (GRECC) Exam Tools – post Geriatric Depression Scale (GDS) Test Completion

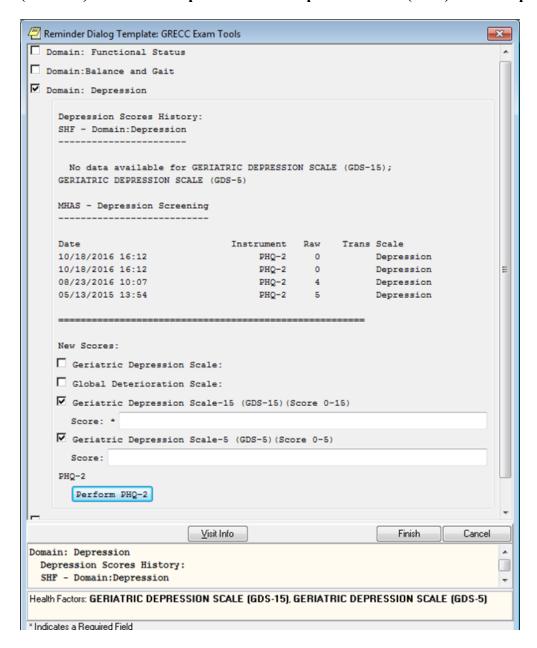
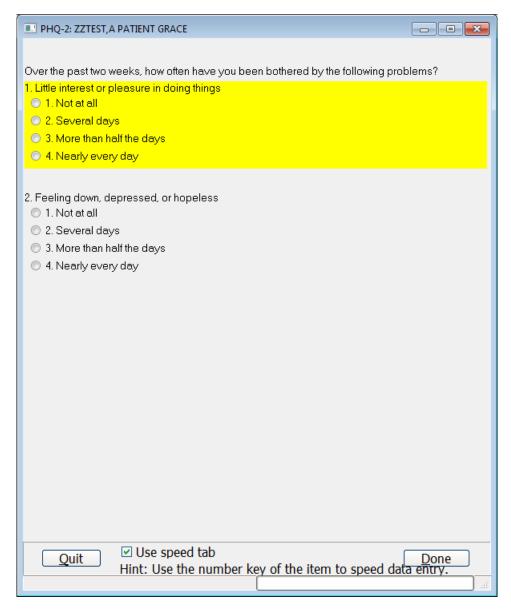


Figure A.32. Patient Health Questionnaire-2 (PHQ-2)



PowerPoint Slides: Veterans Integrated Service Network (VISN) 1 - Depression Evaluation and Follow-up

Figure A.33. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 1 of 7)

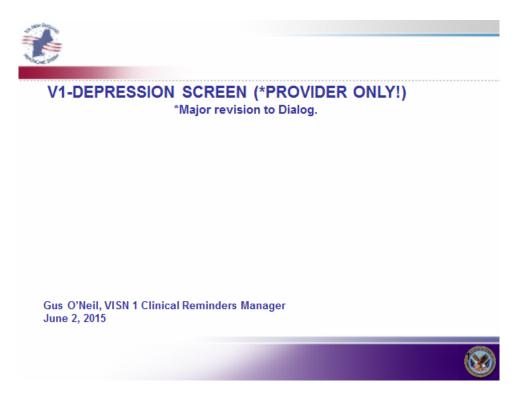


Figure A.34. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 2 of 7)



What has changed, and why?

In an effort to improve our performance on Suicide Risk Evaluation and F/U treatment Plans for POSITIVE Depression Screens, VISN 1 is adopting a PROVIDER ONLY modified version of our Depression screen. The dialog REQUIRES answering YES or NO as to whether or not the Screen was Positive. If yes, the dialog REQUIRES performing both the Suicide Risk Evaluation and the F/U Treatment Plan.

Branching logic was used in the Suicide Risk Evaluation dialog group, so that it is marked as complete – nothing to do – if the Suicide Risk Evaluation was done earlier in the day or during the same note, when processing the PTSD Screen – if it was positive too! A Health Factor – Indicating Suicide Risk evaluation was done in the past 24 hours - is used in the Reminder Term for the branching logic. Taking advantage of a glitch in the CR software, the Health Factor (Suicide Risk Eval done in past 24 hours) is found PRIOR to signing note, so branching logic works immediately if just done via other reminder.

There's a Dialog option for Severe Cognitive Impairment found in all of our Alcohol Screen, Alcohol Eval & F/U, Depression Screen, Depression Eval & F/U, PTSD Screen, and PTSD Eval & F/U reminders. Severe Cognitive Impairment (Health Factor) excludes the patient from the cohort for 1 year. Documenting in one reminder affects all 6 related MH reminders! We have REMOVED the Temporary Cognitive Impairment option from all 6 reminders.



Figure A.35. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 3 of 7)

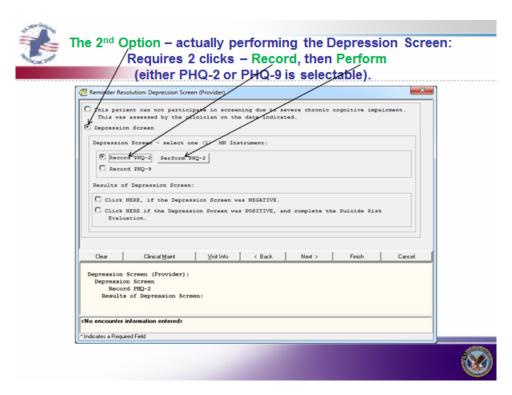


Figure A.36. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 4 of 7)

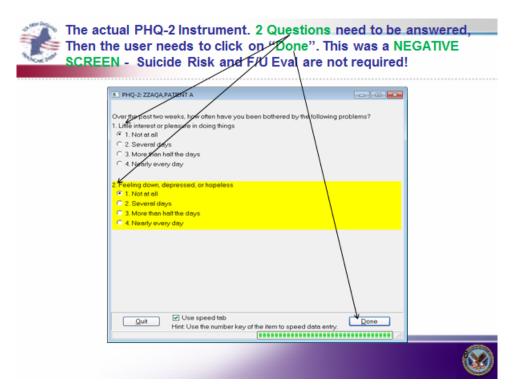


Figure A.37. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 5 of 7)

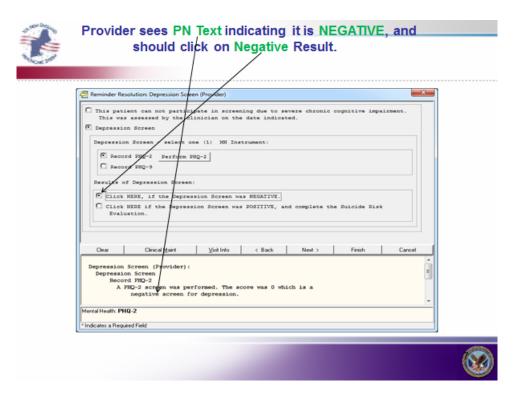


Figure A.38. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 6 of 7)

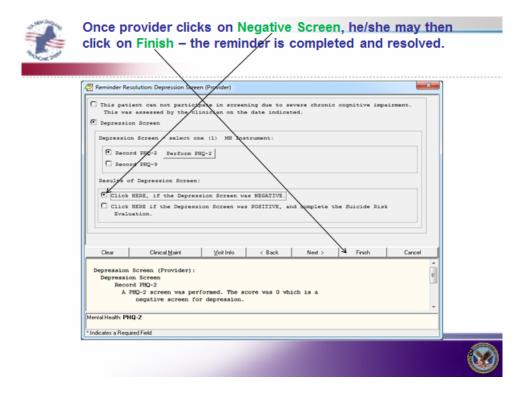


Figure A.39. Veterans Integrated Service Network (VISN) 1 - Depression Screen (slide 7 of 7)

